	Application No.	Applicant(s)	11/4
Notice of Allowability	10/642,719	MACLEAN, THOMAS	1. h
	Examiner	Art Unit	
	James M McAleenan	3745	
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included inication will be mailed in due cou	rse. THIS
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-19</u> .			
3. The drawings filed on 18 August 2003 are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been received of this communication to file	n No I in this national stage application	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT Interpretation 	on's Patent Drawing Review Amendment / Comment or 84(c)) should be written on the header according to 37 CFI sit of BIOLOGICAL MATE	in the Office action of ne drawings in the front (not the back 1.121(d). ERIAL must be submitted. Note	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Su Paper No./I 8), 7. ☐ Examiner's /	formal Patent Application (PTO-1summary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowal	,

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The instant invention is deemed to be directed to an unobvious improvement over Maguire et al. (U.S. Patent Number 6,089,821) (see Figure 2 and Col. 2, lines 65-67 and Col. 3, lines 1-16). Maguire et al. discloses a turbine casing (50) having a plurality of turbine shroud assemblies. Maguire et al. discloses a base casing (62) having a forward mounting flange, an aft mounting flange and at least one channel defined there-between. Maguire et al. discloses a rim (64) on the base casing proximate to the channel. Maguire et al. discloses a U shaped manifold (66) coupled to the base casing (see Figure 2 and Col. 3, lines 1-16). The improvement comprises the combination of the method of (regarding claim 1): a turbine casing having a base casing, wherein a rim is machined on the base casing proximate at least one channel; 2) a ring member coupled to the base casing with an interference fit such that the rim is at least partially received within a groove formed within the ring member. The improvement comprises the combination of (regarding claim 6): 1) a base casing having a body positioned between a forward and aft flange, wherein the body includes at least one channel defined therein; 2) an annular ring member coupled to the base casing, wherein the ring member is configured to thermally expand at a rate substantially identical to a rate of the thermal expansion of the forward and aft flanges. The improvement comprises the combination of (regarding claim 13): 1) a base casing of a turbine section having a body positioned between a forward and aft flange, wherein the body includes at least one channel defined therein; 2) an annular ring member coupled to the base casing, wherein the ring member is configured to thermally expand at a rate substantially identical to a rate of the thermal expansion of the forward and aft flanges.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee, and to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "comments on Statement of Reasons for allowance."

PRIOR ART

The prior art made of record but not relied upon is considered pertinent to applicant's disclosure and consists of 1 patent.

Nash et al. (U.S. Patent Number 4,840,026) is cited to show similar airfoil features as claimed by Applicant's invention.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner James M. McAleenan whose telephone number is (703) 308-2827. The examiner can normally be reached on Monday thru Friday from 9:00 am to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look, can be reached at (703) 308-1044. The fax number for this Group is (703) 872-9306.

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An inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

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9/27/04

James M. McAleenan Patent Examiner Art Unit 3745

EDWARD K. LOOK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

9/29/04